

Supplementary File 1. Evidence table of included studies.

Authors	Tests	Population	% Females	Properties evaluated
Akbari 2006	FRT; SEBT; DBO; DBC; LOS; LOST; WBC; WBO	Grade I and II LAS (n=30)	0.0	Known group validity
Alsalaheen 2015	LOS; BESS; mCTSIB	Healthy subjects (n=36)	52.8	Convergent validity; divergent validity; test- retest reliability
Amacker 2015	SEBT	Healthy subjects (n=30)	66.7	Intratester reliability; intertester reliability; responsiveness
Augustsson 2006	Single-leg hop test	Healthy subjects (n=11)	0.0	Intratester reliability
Bastien 2014	SEBT	LAS (n=10) Healthy subjects (n=10)	0.0 0.0	Known group validity
Batson 2010	SEBT	Healthy subjects (n=37)	88.8	Known group validity; convergent validity
Bolgia 1997	Single hop for distance; Triple hop; 6- m timed hop and cross-over hop	Healthy adults (n=20)	75.0	Intratester reliability
Boyle 1998	JPS	LAS (n=25) Healthy subjects (n=65)	68.0 53.7	Known group validity; intratester reliability
Brown 2004	TTS; JPS	FAI (n=10) Functional ankle sprain (n=10)	40.0 60.0	Known group validity
Brown 2007	TTS	CAI (n=20) Healthy subjects (n=20)	50.0 50.0	Known group validity; test-retest reliability
Buchanan 2008	Singe limb hop test; Single limb hurdle test	FAI (n=20) Healthy subjects (n=20)	/	Known group validity
Cachupe 2001	BBS	Healthy subjects (n=20)	50.0	Test-retest reliability
Caffrey 2009	Figure-of-8 hop test; Side hop test; 6-meter crossover hop test; Square hop test	FAI (n=30) Healthy subjects (n=30)	50.0 50.0	Known group validity

de Jong 2005	Movement detection; Movement discrimination	Recurrent inversion ankle sprain (n=18)	50.0	Convergent validity
Demeritt 2002	Agility hop test	CAI (n=20) Healthy subjects (n=20)	0.0 0.0	Known group validity
Deshpande 2003	TPPM (0.25°/s); Active reproduction of joint position; Error in reproduction of velocity; Error in reproduction of torque	Healthy subjects (n=24)	62.5	Construct validity; test-retest reliability
Deshpande 2016	TPPM (0.3°/s)	Healthy subjects, Diabetes, Peripheral arterial disease, Peripheral neuropathy, Cataract, Osteoarthritis, Osteoporosis, Parkinson (n=790)	45.8	Convergent validity
Docherty 2005	Side hop test; figure-of-8 hop test; single hop for distance; the up-down hop; FAI index; Functional-performance testing	FAI (n=42) Healthy subjects (n=18)	71.7	Convergent validity
Docherty 2006	BESS	LAS (n=30) Healthy subjects (n=30)	70.0 70.0	Known group validity
Doherty 2015	SEBT	LAS (n=69) Healthy subjects (n=20)	36.2 25.0	Known group validity
Doherty 2015	SEBT	LAS (n=42) Healthy subjects (n=20) CAI (n=28)	38.1 25.0 39.3	Known group validity
Doherty 2015	SEBT	LAS (n=81) Healthy subjects (n=19)	34.6 21.1	Known group validity

Eechaute 2008	Multiple Hop Test	CAI (n=29) Healthy subjects (n=29)	41.4 27.6	Known group validity; intratester reliability
Eechaute 2008	Multiple hop test; CAI scale	CAI (n=29)	/	Internal consistency; content validity; floor- ceiling effect; convergent validity; intratester reliability
Eechaute 2009	Multiple hop test	CAI (n=29) Healthy subjects (n=29)	41.4 27.6	Known group validity; intratester reliability
Eechaute 2012	Multiple hop test	CAI (n=29) Healthy subjects (n=29)	41.4 27.6	Intratester reliability
Forkin 1996	TPPM (0.33°/s)	Unilateral Ankle Sprain (n=8) Bilateral Ankle Sprain (n=3)	81.8	Known group validity
Fournier Belley 2016	Movement detection error	Healthy subjects (N=29)	56.7	Convergent validity; test-retest reliability
Fu 2005	Ankle joint repositioning test; Sensory Organization Test	Bilateral multiple ankle sprains (n=19) Healthy subjects (n=20)	0.0 0.0	Known group validity; test-retest reliability
Gribble 2013	SEBT	Healthy subjects (n=29)	65.5	Intertester reliability
Groters 2013	Double-leg stance; Multiple Hop Test	FAI (n=16) Healthy subjects (n=16)	75.0 75.0	Known group validity
Hertel 2000	SEBT	Healthy adults (n=16)	50.0	Intratester reliability; intertester reliability
Hertel 2006	SEBT	CAI (n=48)	54.2	Known group validity
Hoch 2012	SEBT; WBLT	CAI (n=30) Healthy subjects (n=30)	56.7 56.7	Known group validity; convergent validity
Hyouk Hyong 2014	SEBT	Healthy adults (n=67)	73.1	Intratester reliability; intertester reliability

Jaber 2018	SEBT	CAI (n=16) Coper (n=16) Healthy subjects (n=16)	56.3 31.3 68.8	Known group validity
Jerosch 1996	One-leg-standing test; single-limb-hopping course; angle- reproduction test; JPS	Post-traumatic ankle instabilities (n=16) Healthy subjects (n=14)	30.0	Known group validity
Kalichman 2016	SEBT	Past LAS (n=20) Healthy subjects (n=20)	60.0 65.0	Known group validity
Kim 2014	JPS; force matching test	FAI (n=35) Healthy subjects (n=34)	54.3 44.1	Known group validity; convergent validity
Kim 2016	JPS; force matching test	FAI (n=40) Healthy subjects (n=3)	53.2	Known group validity
Kinzey 1998	SEBT	Healthy subjects (n=20)	55.0	Intratester reliability
Ko 2017	SEBT; Foot Lift Test; Single-leg Hop Test; Time in Balance Test	CAI (n=25) Healthy subjects (n=33)	60.0 51.5	Convergent validity; intratester reliability
Ko 2018	SEBT; single leg hop test	Young soccer players with LAS (n=12) Young healthy soccer players (n=52)	58.3 53.8	Known group validity
Ko 2018	SEBT; single leg hop test	LAS (n=24) Healthy subjects (n=34)	48,3	Known group validity
Lee 2006	Active and Passive ankle repositioning sense; Static balance	Unilateral FAI (n=8) Healthy subjects (n=8)	/	Known group validity; convergent validity
Lim 2009	JPS; kinesthesia (Biodex)	Unilateral FAI (n=25)	16.0	Known group validity; test-retest reliability
Lin 2016	JPS	Ankle instability (n=13) Healthy subjects (n=11)	38.5 0.0	Known group validity; convergent validity

Madsen 2018	Side hop; 6-m cross-over hop; figure of eight hop; Triple crossover hop; Lateral hop	Unilateral CAI (n=24) Healthy subjects (n=24)	58.3 58.3	Known group validity
Meardon 2016	SEBT; TTS; postural stability indices during single leg landing and stabilization tasks	Injured runners (n=22) Healthy runners (n=22)	63.6 63.6	Known group validity; test-retest reliability
Munro 2010	SEBT	Healthy recreational athlete (n=22)	50.0	Intratester reliability
Nakagawa 2004	Excursion of the center of pressure for dynamic and static tests; SEBT	Recurrent ankle sprain (n=19) Healthy subjects (n=19)	55.3	Known group validity; convergent validity
Nakasa 2008	JPS	Repeated unilateral ankle sprains (n=12) Healthy subjects (n=17)	50.0 29.4	Known group validity
Olmsted 2002	SEBT	Unilateral CAI (n=20) Healthy subjects (n=20)	50.0 50.0	Known group validity
Perron 2007	Biodex Stability System	Grade II LAS (n=34) Healthy subjects (n=36)	20.6 30.6	Known group validity
Pionnier 2016	SEBT with Vicon and forceplate	Unilateral CAI (n=17) Healthy subjects (n=17)	41.2 29.4	Known group validity
Plante 2013	SEBT	CAI (n=25) Coper (n=21) Healthy subjects (n=20)	/	Known group validity
Plisky 2009	Y balance test	Collegiate soccer players (n=15)	0	Intratester reliability; intertester reliability

Pourkazemi 2016	Movement Detection; JPS; Response to Perturbation; Demi- Pointe Balance Test; Foot Lifts During Single-Legged Stance With Eyes closed; SEBT; TPPM	Unilateral CAI (n=30) Healthy subjects (n=70)	43.3 65.7	Known group validity
Pozzi 2015	SEBT	CAI (n=9) Coper (n=9) Healthy subjects (n=12)	55.6 22.2 50.0	Known group validity
Refshauge 2000	JPS	Recurrent ankle inversion sprain (n=25) Healthy subjects (n=18)	/	Known group validity
Refshauge 2003	JPS	Recurrent ankle inversion sprain (n=39) Healthy subjects (n=30)	/	Known group validity; test-retest reliability
Rein 2011	JPS; Range of motion; postural control; peroneal reaction time	Professional soccer players (n=30) Amateur soccer players (n=30) Healthy subjects control (n=30)	0.0 0.0 50.0	Known group validity
Rein 2011	JPS; Range of motion; postural control; peroneal reaction time	Professional dancers (n=30) Amateur dancers (n=30) Healthy subjects (n=30)	66.7 66.7 50	Known group validity
Ross 2002	Single hop for distance; Triple hop; 6- m timed hop and cross-over hop	Healthy subjects (n=18)	0.0	Intratester reliability
Sekir 2008	JPS; One leg standing; single limb hopping course; single legged; triple legged hop for distance; six and cross six-meter hop for time	FAI (n=24)	0.0	Intratester reliability; test-retest reliability

Sousa 2017	Active and passive JPS; Kinesthesia (TPPM); Force sense	Mechanical instability (n=10) FAI (n=14) Healthy subjects (n=20)	25.0 25.0 15.0	Known group validity; test-retest reliability
Steib 2013	TTS; SEBT	Unilateral CAI (n=14) Healthy subjects (n=16)	42.9 31.3	Known group validity
Steinberg 2019	AMEDA-stand and sit for JPS and JPS	Ankle sprain (n=34) Healthy subjects (n=11)	75.6	Convergent validity
Sun 2015	TPPM (0.4°/s)	Healthy subjects (n=21)	38.1	Test-retest reliability
Switlick 2015	Active absolute joint-repositioning error	Injured runners (n=20) Healthy runners (n=20)	70.0 70.0	Known group validity
Szczerba 1995	Active JPS; Passive JPS	Healthy subjects (n=20)	50.0	Intertester reliability
Tankevičius 2013	Eversion Peak Torque; Inversion Peak Torque; Square Hop Test; Figure of Eight Hop test	Athletes with ankle trauma (n=80)	33.8	Intratester reliability
Thorpe 2008	SEBT	Soccer players (n=12) Non soccer players (n=11)	100.0	Known group validity
van Lieshout 2016	modified SEBT	Control (n=55)	62.0	Intratester reliability; intertester reliability
Wikstrom 2009	Figure-8 hop; Side-to-side hop; Triple-crossover hop and Single-leg hop for distance	Active adults with unilateral CAI (n=24) Copers (n=24) Uninjured controls (n=24)	50.0 50.0 50.0	Known group validity; intratester reliability
Witchalls 2012	AMEDA-stand and AMEDA-step for JPS	Unstable ankle (n=13) Stable ankle (n=8)	61.5 75.0	Known group validity; test-retest reliability

Witchalls 2014	AMEDA-stand for JPS	CAI (n=36) Stable ankle (n=25)	86.1 72.0	Known group validity; test-retest reliability
Worrell 1994	Single-leg hop test	Unilateral inversion ankle sprain (n=22) Healthy subjects (n=18)	59.1	Known group validity; Intratester reliability
Yildiz 2009	Single limb hopping course; One legged and triple-legged hop for distance; 6-m and cross 6-m hop for time; Ankle joint position sense and one leg standing test	Healthy subjects (n=20)	0.0	Intratester reliability; test-retest reliability

AMEDA = Active Movement Extent Discrimination Apparatus; BBS = Biodex Balance Score; BESS = Balance Error Scoring System; CAI scale = Chronic Ankle Instability scale; DBC = Dynamic Balance Bilateral standing eyes closed; DBO = Dynamic Balance bilateral standing eyes open; FAI index = Functional Ankle Instability index; FRT = Functional Reach Test; Grade I LAS = Minimal loss of function with no ligament tear; Grade II LAS = Some loss of function with partial ligament tear; JPS = Joint Position Sense; LOS = Limit of Stability; LOST = Limit of Stability time; mCTSIB=Modified Clinical Test for Sensory Interaction on Balance; TPPM = Threshold for Perception of Passive Movement; TTS = Time to Stabilization; SEBT = Star Excursion Balance Test; WBC = Weight-Bearing eyes closed; WBLT = Weight-Bearing Lunge Test; WBO = Weight-Bearing eyes open